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ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

AARON B. KEATLEY
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300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

December 19, 2016

David F. Schrader, P.E.
Vice President
Bell Engineering, Incorporated
2480 Fortune Drive, Suite 350
Lexington, Kentucky 40509

Re: Waste Load Allocation Request
Otter Creek Wastewater Treatment Plant
KPDES No.: KY0107107
Madison County, Kentucky

Dear Mr. Schrader:

This is in response to your October 3, 2016 letter (attached), requesting a waste load allocation (WLA) for expansion of the existing 8.0 million gallons per day (MGD) wastewater treatment plant (WWTP) to 12.0 MGD. Discharge is to remain to Otter Creek at 84°15'40.6" west longitude and 37°48'07.5" north latitude, near National Hydrography Dataset (NHD) River Mile (RM) 8.53, segment 04028. The requested WLA information will be utilized in drafting a Regional Wastewater Facilities Plan update.

Considering the above-mentioned information, applicable effluent limitations are provided below.

Design Capacity = 12.0 MGD / Discharge near NHD RM 8.53 of Otter Creek

<u>Parameter</u>	<u>May 1 – October 31</u>	<u>November 1 - April 30</u>
CBOD ₅	20 mg/l	20 mg/l
Total Suspended Solids	30 mg/l	30 mg/l
Ammonia Nitrogen	4 mg/l	10 mg/l
Dissolved Oxygen	7 mg/l	7 mg/l
Total Phosphorus	1 mg/l	1 mg/l
Total Nitrogen	Monitor, mg/l	Monitor, mg/l
Total Residual Chlorine	0.011 mg/l	0.011 mg/l
Chronic Toxicity	1.0 TUc	1.0 TUc
Reliability Classification = Grade C		

In addition to the above requirements, the monthly average and weekly maximum values of E. coli shall be at or below 130 colonies per 100 milliliters or 240 colonies per 100 milliliters, respectively, the year around. If a form of chlorine is proposed to disinfect the wastewater, then de-chlorination will likely be needed to achieve the chlorine residual effluent concentration. Additional effluent limitations and water quality standards are contained in 401 KAR Chapter 5 and 401 KAR Chapter 10.

These preliminary design effluent limitations are valid for one (1) year from the date of this letter, and are subject to change as a result of additional information which may be presented during the public notice phase of the KPDES permitting process. As such, this letter does not convey any authorization or approval to proceed with the construction or operation of the proposed WWTP. Construction and KPDES permit applications must be submitted to request such authorization or approval. Nor does this letter ensure issuance of either permit. During the review processes of these permits the Division of Water will further evaluate the viability of the project.

Should you have any questions regarding this letter, please contact Courtney Seitz, of my staff, at (502) 782-7066 or E-mail at Courtney.Seitz@ky.gov.

Sincerely,

A handwritten signature in dark ink, appearing to read "Sara Beard". The signature is fluid and cursive, with the first and last names being clearly legible.

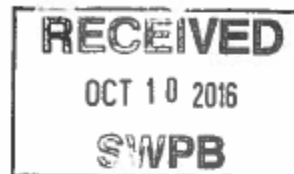
Sara Beard, P.E.
Environmental Engineer Branch Manager
Surface Water Permits Branch
Division of Water

SJB:CS

c: Russell Neal, Water Infrastructure Branch
Compliance and Technical Assistance
Branch, Frankfort Section
TEMPO



October 3, 2016



Sara Beard
Energy & Environment Cabinet
Division of Water
300 Sower Blvd.
Frankfort, KY 40601

Re: Waste Load Allocation
Otter Creek WWTP
KPDES Permit No. KY00107107
Richmond, Kentucky

Dear Ms. Beard:

The City of Richmond is in the process of developing a new wastewater facilities plan. That plan proposes to expand the capacity of the existing Otter Creek wastewater treatment plant from 8.0 MGD to 12.0 MGD by the year 2025. The discharge point remains as currently permitted. The planning review section of the Division of Water has requested that the waste load allocation for the facility be updated to reflect the projected flow rate. Therefore, we respectfully request a new waste load allocation for the proposed upgraded facility.

Should you have any questions, please let us know.

Sincerely,
Bell Engineering

A handwritten signature in blue ink, appearing to read "D.F. Schrader".

David F. Schrader, P.E.
Vice President

c: Scott Althausen, RU General Manager

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